

FIG. 1

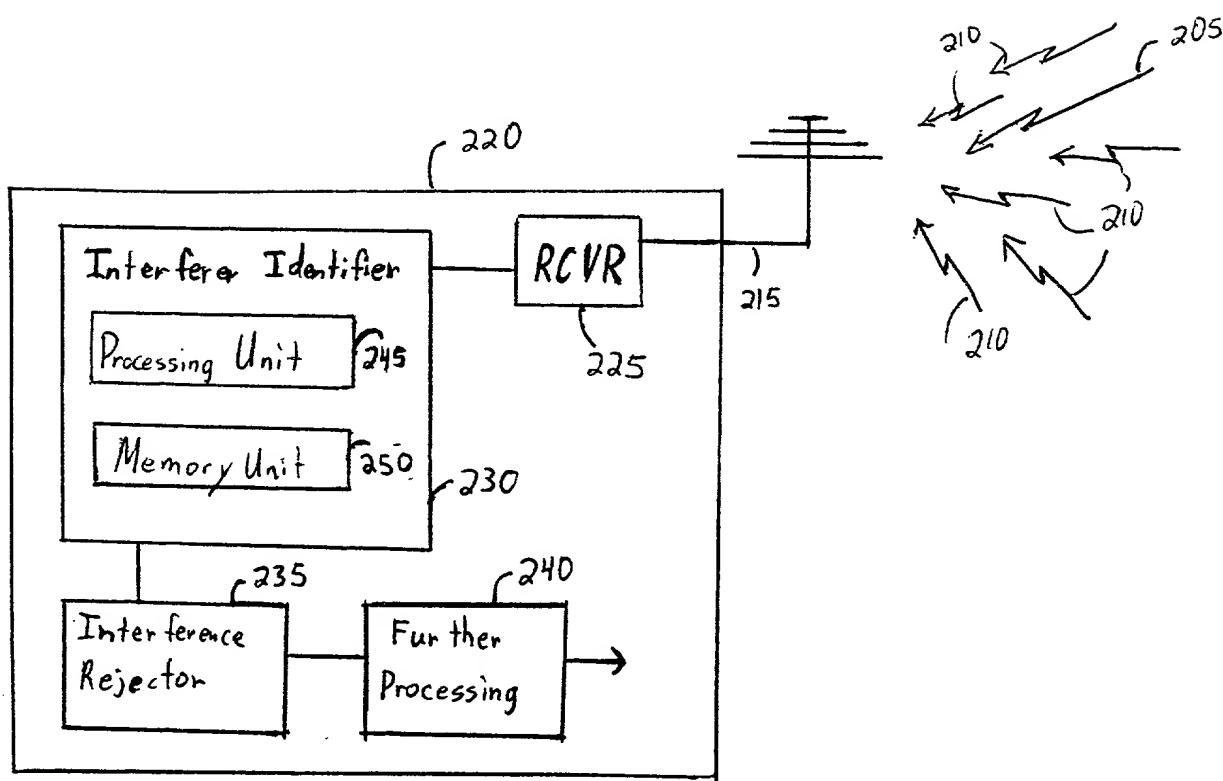


FIG. 2

300

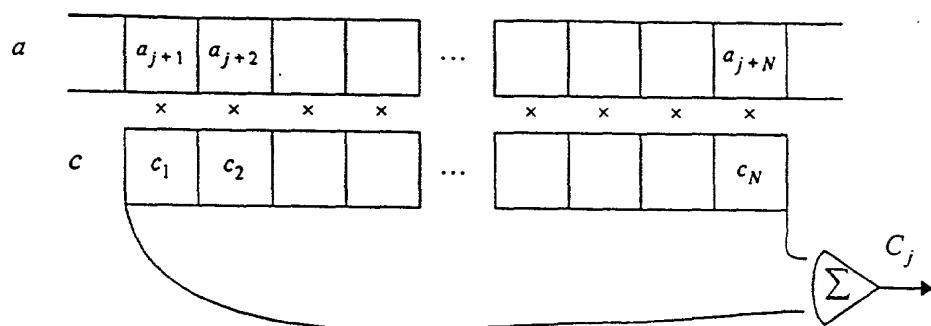


FIG. 3A

320

Training Sequences

index i	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Seq. #																										
1	1	1	1	-1	1	1	1	-1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	1	1	-1	-1	-1	
2	1	-1	1	-1	-1	1	1	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	1	1	1	1
3	-1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1
4	-1	-1	-1	1	1	-1	1	-1	1	1	-1	-1	1	-1	-1	-1	-1	-1	1	1	-1	1	-1	1	1	1
5	-1	1	-1	-1	-1	1	1	1	-1	1	1	-1	1	-1	-1	-1	1	-1	-1	-1	1	1	1	1	1	-1
6	-1	1	-1	-1	-1	-1	1	1	1	-1	1	1	-1	1	-1	-1	1	-1	-1	-1	1	1	1	1	-1	1
7	-1	-1	1	-1	1	1	-1	1	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1	1	1	-1	1	1	1
8	-1	-1	1	-1	-1	1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	1	1	1

FIG. 3B

340

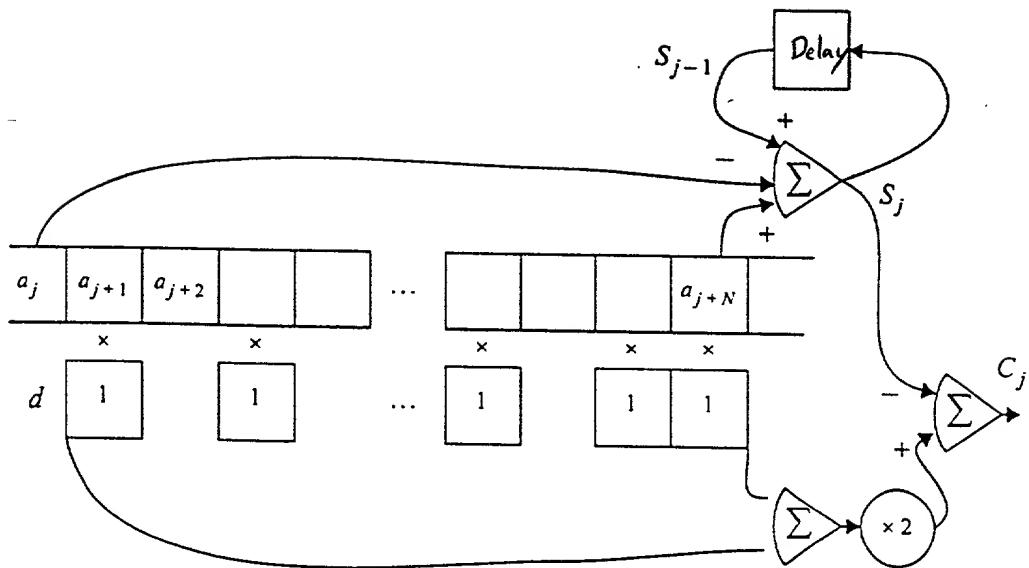


FIG. 3C

360

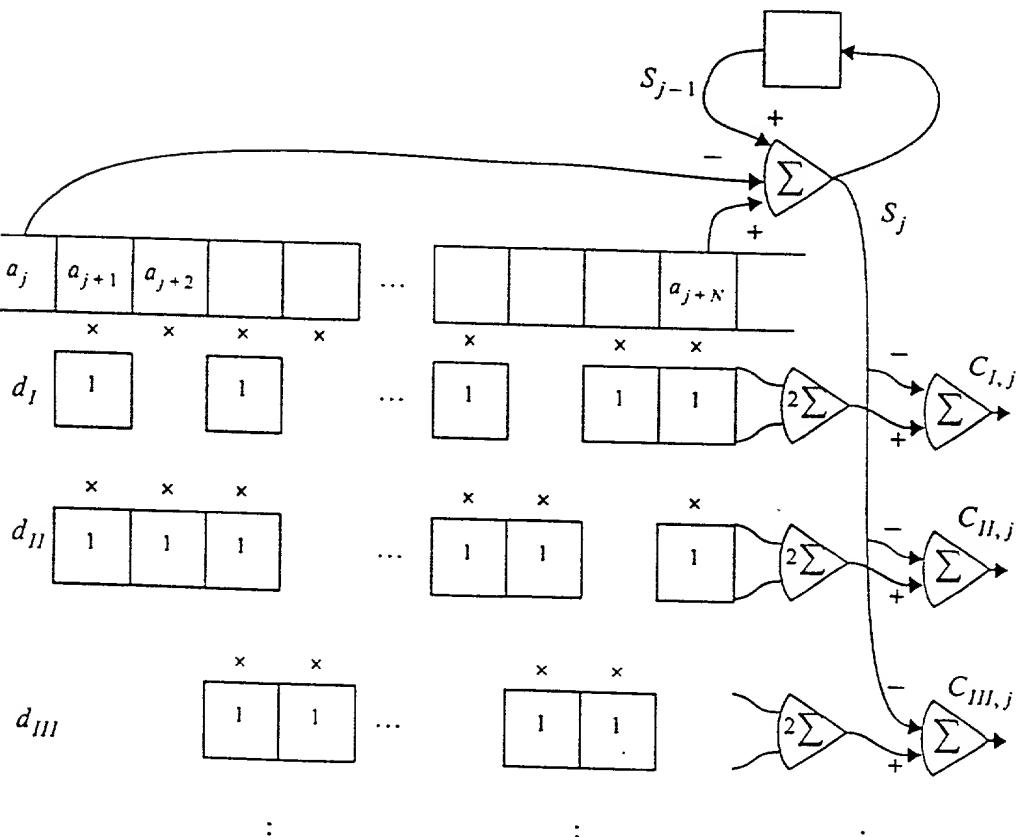


FIG. 3D

380

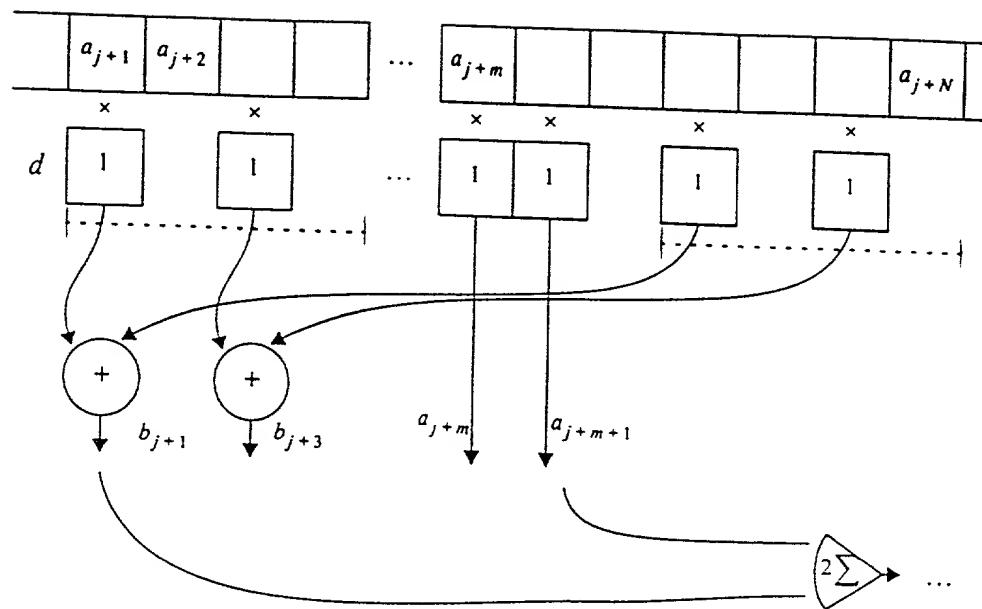


FIG. 3E

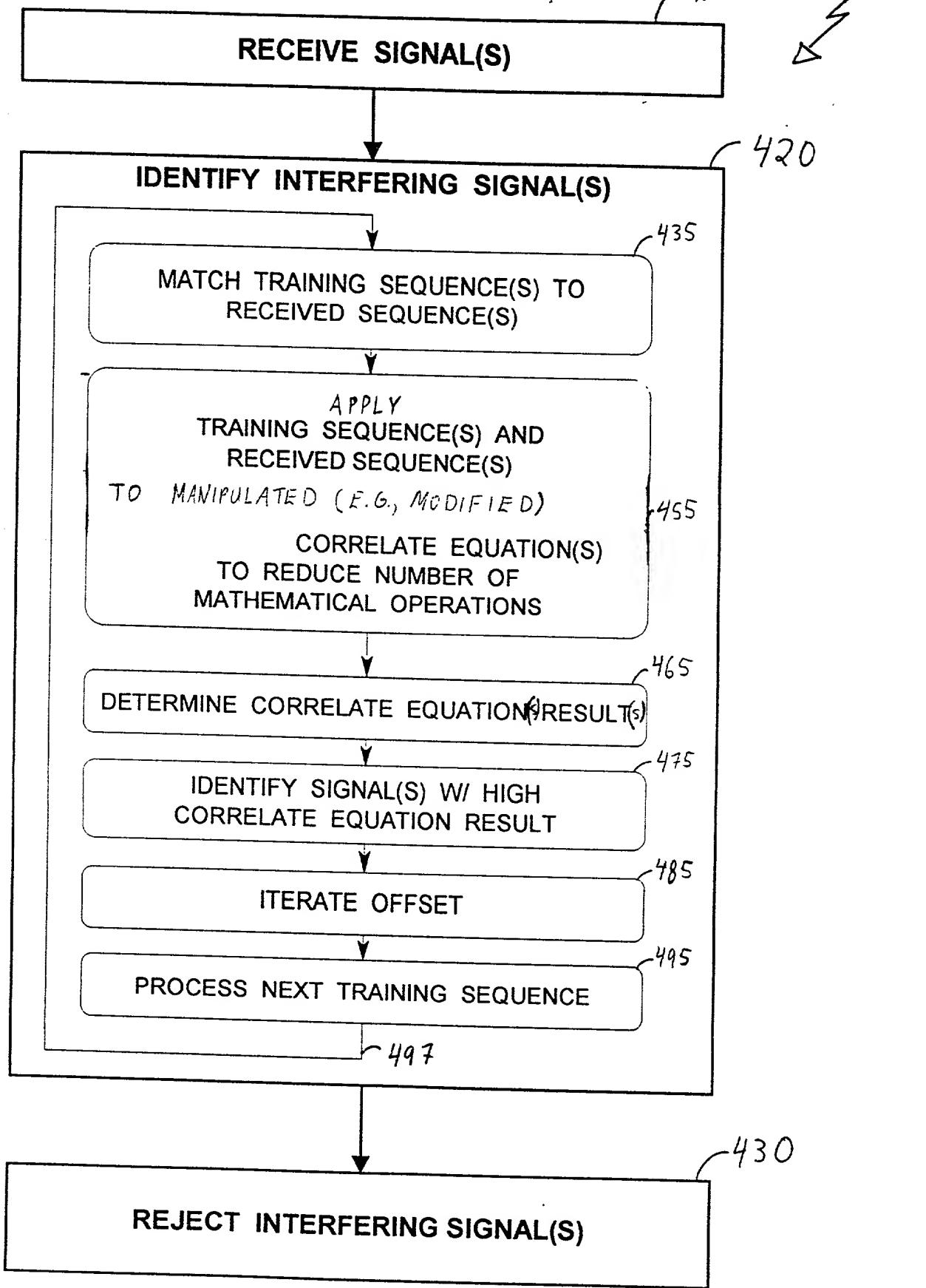


FIG. 4

455A

MODIFY THE CORRELATE EQUATION(S) TO INCLUDE A SUM THAT IS DEPENDENT ON THE RECEIVED SEQUENCE(S) BUT INDEPENDENT OF THE TRAINING SEQUENCE

455B

MODIFY THE CORRELATE EQUATION(S) SO THAT ALL PRODUCTS CORRESPONDING TO AT LEAST ONE VALUE OF THE TRAINING SEQUENCE(S) BECOME ZERO

**FIG. 4A**

**FIG. 4B**

455C

MODIFY THE CORRELATE EQUATION(S) SO THAT THE NUMBER OF PRODUCTS TO BE CALCULATED IS LESS THAN THE NUMBER OF VALUES IN A TRAINING SEQUENCE

455D

MODIFY THE CORRELATE EQUATION(S) BY ELIMINATING COMMON SUBEXPRESSIONS

**FIG. 4C**

**FIG. 4D**

455E

MODIFY THE CORRELATE EQUATION(S) SUCH THAT A NEGATIVE OF A CORRELATE RESULT IS DETERMINED IF A NUMBER OF NON-ZERO FIRST ORDER TERMS IS GREATER THAN A THRESHOLD

500

465E

DETERMINE CORRELATION RESULT FROM THE NEGATIVE OF THE CORRELATION RESULT ONLY IF AN ABSOLUTE VALUE OF THE NEGATIVE OF THE CORRELATION RESULT IS GREATER THAN A THRESHOLD

505 510 515

505a }  
 $a_{16}$  0000000000000000100000000000 00000000  
 $a_{15}$  0000000000000000100000000000 10001111  
 $a_{14}$  0000000000000000100000000000 00110101  
 $a_{13}$  0000000000000000100000000000 01000110  
 $a_{12}$  0000000000000000100000000000 11101110  
 $a_{11}$  0000000000100000000000000000 00111100  
 $b_{10}$  0000000001000000000000000001 01010011  
 $b_9$  0000000010000000000000000010 01111111  
 $b_8$  00000001000000000000000000100 11001111  
 $b_7$  000000100000000000000000001000 11111100  
 $b_6$  0000010000000000000000000010000 11101011  
 $b_5$  00001000000000000000000000100000 10110010  
 $b_4$  000100000000000000000000001000000 00010000  
 $b_3$  0010000000000000000000000010000000 11000011  
 $b_2$  0100000000000000000000000010000000 10101100  
 $b_1$  1000000000000000000000000010000000 11000000

FIG. 5

FIG. 4E